

PROJECT DESCRIPTION

THIS PROJECT INVOLVES MODIFYING THE EXISTING TRAFFIC SIGNAL AT MD 70 (ROWE BOULEVARD) AND US 50 RAMP 'B' SPUR TO INCLUDE A PEDESTRIAN CROSSING ON THE NORTH APPROACH. PEDESTRIAN INDICATIONS WITH PUSHBUTTONS AND CROSSWALK WILL BE INSTALLED ON THE NORTH APPROACH. MD 70 (ROWE BOULEVARD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE FULLY-ACTUATED NEMA CONTROLLER WILL BE USED. THE CONTROLLER WILL CONTINUE TO OPERATE IN A TWO-PHASE FULLY-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE PHASING BEING PROVIDED FOR THE EASTBOUND LEFT-TURN FROM MD 70 (ROWE BOULEVARD). EASTBOUND MD 70 (ROWE BOULEVARD) THROUGH MOVEMENT IS NOT CONTROLLED BY THE TRAFFIC SIGNAL. AN ALTERNATE PEDESTRIAN PHASE WILL OPERATE CONCURRENTLY WITH THE WESTBOUND MD 70 (ROWE BOULEVARD) MOVEMENT UPON PEDESTRIAN ACTUATION.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIMBERLY M. TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. JOHN MAYS
UTILITIES ENGINEER
(410) 841-1039

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1013

CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY ARE AS FOLLOWS:

MR. RICHARD DAFF SR.
DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7631

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7676

THE POWER COMPANY REPRESENTATIVE IS:

BALTIMORE GAS AND ELECTRIC COMPANY
MR. HUMBERT GRANNACCINI
7317 PARKWAY DRIVE SOUTH
HANOVER, MD -21076
(410) 859-9472

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION.

ITEM NO.	QUANTITY	DESCRIPTION
860278	11 SF	SHEET ALUMINIUM SIGN - 1 EACH R10-12(4) (30"x24") - MAST ARM MOUNT

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
203030	2 CY	TEST PIT EXCAVATION.
585620	400 LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
585624	50 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.
801004	2 CY	CONCRETE FOR SIGNAL FOUNDATION.
802501	150 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE.
805011	50 LF	1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE.
805115	60 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED.
805135	50 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
805160	10 LF	1 INCH NON-LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT DETECTOR SLEEVE.
810011	1000 LF	LOOP DETECTOR SPLICED TO EXISTING 2- CONDUCTOR (ALUMINUM SHIELD).
810555	2 EA	MICRO LOOP PROBE, 1000 FOOT LEAD IN CABLE.
811001	2 EA	ELECTRICAL HANDHOLES.
818004	2 EA	10 FOOT BREAKAWAY PEDESTAL POLE AND BASE.
837001	2 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH.
860278	4 EA	12 INCH PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT.
861105	225 LF	ELECTRICAL CABLE - 2 CONDUCTOR (No 14 AWG).
861106	250 LF	ELECTRICAL CABLE - 3 CONDUCTOR (No 14 AWG).
862102	300 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR).
865001	2 EA	PUSHBUTTON AND R10-4(1) SIGN, 9"x12", "PUSH BUTTON TO CROSS ROWE BOULEVARD".

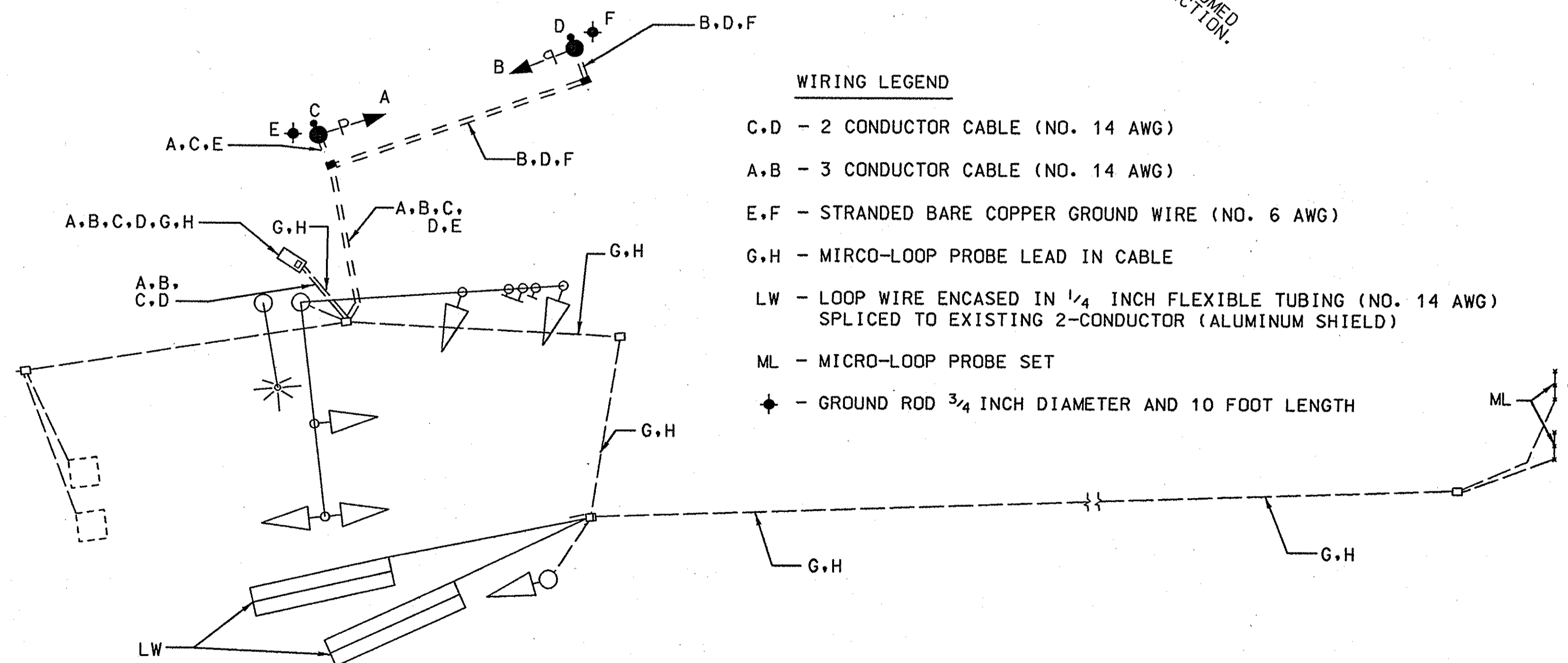
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

801706	15 SF	REMOVE SIGNS FROM EXISTING OVERHEAD STRUCTURE
813015	11 SF	INSTALL OVERHEAD SIGN

WIRING DIAGRAM

NOT TO SCALE



WIRING NOTE:

- EXISTING LEAD-IN CABLE FOR LOOP DETECTORS WHICH ARE BEING ABANDONED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- EXISTING WIRING NOT DETAILED SHALL REMAIN IN PLACE.

PHASE CHART

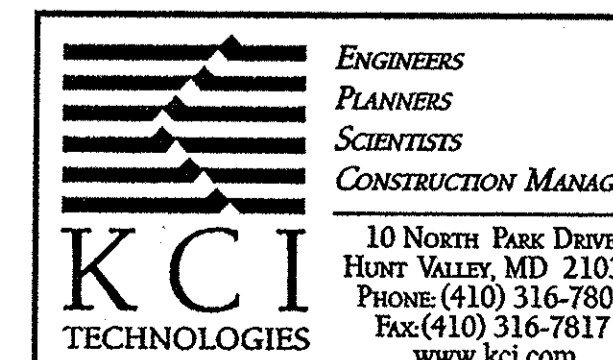
1	2	3	4	5	6	7	8
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 2	G	G	FL/4R	FL/4R	R	R	DW	DW	
2 CHANGE	Y	Y	FL/4R	FL/4R	R	R	DW	DW	←
ALT PHASE 1	G	G	4R	4R	R	R	WK	WK	←
PED CLEAR	G	G	4R	4R	R	R	FL/DW	FL/DW	←
ALT 1 CHANGE	Y	Y	4R	4R	R	R	DW	DW	←
PHASE 4	R	R	4G	4G	G	G	DW	DW	↑
4 CHANGE	R	R	4Y	4Y	Y	Y	DW	DW	↑
FLASHING OPERATION	FL/Y	FL/Y	FL/4R	FL/4R	FL/R	FL/R	DARK	DARK	←

SGW-4



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 70 (ROWE BOULEVARD) AT US 50 RAMP "B" SPUR
GENERAL INFORMATION SHEET



DRAWN BY: MP	F.A.P. NO.	TS NO.	
CHECKED BY: JL	S.H.A. NO.	34688-61	
SCALE: NONE	COUNTY: ANNE ARUNDEL	T.I.M.S. NO.	
DATE: NOVEMBER 2003	LOG MILE: 02007001.74	F-560	

SHEET NO.
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